		Pushing the Enve	elope				
		2005 Mathemat					
		Content Standa					
Hawaii Mathematics							
Grade 5							
Activity/Lesson	State	Standards					
			Understand numbers, ways of representing				
			numbers, relationships among numbers, and				
Physics and Math			number systems: Represent percent and ratio				
(pgs. 43-63)	HI	MA.5.MA.5.1.1	using pictures or objects				
,			Understand numbers, ways of representing				
			numbers, relationships among numbers, and				
			number systems: Use equivalent forms of whole				
Physics and Math			numbers, fractions, ratios, decimals, and				
(pgs. 43-63)	HI	MA.5.MA.5.1.2	percents to solve problems				
11 G = 7			Use symbolic forms to represent, model, and				
			analyze mathematical situations: Describe				
Physics and Math			situations with constant or varying rates (e.g.,				
(pgs. 43-63)	HI	MA.5.MA.5.10.3	miles per hour, items per box)				
(I- J)							
	l	Pushing the Enve	elope				
		2005 Mathemat					
		Content Standa	irds				
Hawaii Mathematics							
Grade 6							
Activity/Lesson	State	Standards					
			Use symbolic forms to represent, model, and				
			analyze mathematical situations: Interpret and				
Physics and Math			solve problem situations involving two different				
(pgs. 43-63)	HI	MA.6.MA.6.10.1	variables				
(1-0							
		Pushing the Enve	elope				
		2005 Mathemat					
		Content Standa	irds				
Hawaii Mathematics							
Grade 7							
Activity/Lesson	State	Standards					
			Understand attributes, units, and systems of				
			units in measurement; and develop and use				
			techniques, tools, and formulas for measuring:				
Physics and Math			Uses ratios and proportions to relate a scale				
(pgs. 43-63)	HI	MA.7.MA.7.4.2	drawing to the actual object				
-7			,,,,,,				
	1	Pushing the Enve	elope				
		2005 Mathemat					
		Content Standa					
Hawaii Mathematics							
Grade 8							
Activity/Lesson	State	Standards					
	•						

			Understand attributes, units, and systems of
			units in measurement; and develop and use
			techniques, tools, and formulas for measuring:
Chemistry (pgs. 25-			Select and use appropriate units to measure the
41)	HI	MA.8.MA.8.4.1	surface area and volume of solids
			Understand attributes, units, and systems of
			units in measurement; and develop and use
			techniques, tools, and formulas for measuring:
			Use formulas to determine the surface area and
Chemistry (pgs. 25-			volume of selected prisms, cylinders, and
41)	н	MA.8.MA.8.4.4	pyramids
,			Understand numbers, ways of representing
			numbers, relationships among numbers, and
			number systems: Use ratios and proportions to
Physics and Math			represent the relationship between two
Physics and Math	н	MA.8.MA.8.1.3	
(pgs. 43-63)	П	IVIA.0.IVIA.0.1.3	quantities
			Understand attributes, units, and systems of
			units in measurement; and develop and use
			techniques, tools, and formulas for measuring:
Physics and Math			Use ratios and proportions to solve
(pgs. 43-63)	HI	MA.8.MA.8.4.3	measurement problems
			Use symbolic forms to represent, model, and
Physics and Math			analyze mathematical situations: Use the slope
(pgs. 43-63)	HI	MA.8.MA.8.10.4	of a line to describe a constant rate of change
		Pushing the Enve	
		2005 Mathemat	
11		Content Standa	ras
Hawaii Mathematics			
Grades 9-12 (Algebra	'		
Activity/Lesson	State	Standards	
			Understand attributes, units, and systems of
			units in measurement; and develop and use
			techniques, tools, and formulas for measuring:
			Use formulas, functions, or conversion
			equations to solve problems dealing with
Types of Engines (MA.9-	determining a measurement based on another
pgs. 11-23)	HI	12.MA.AI.4.1	derived or given measurement
			Understand attributes, units, and systems of
			units in measurement; and develop and use
			techniques, tools, and formulas for measuring:
			Use formulas, functions, or conversion
			equations to solve problems dealing with
Chemistry (pgs. 25-		MA.9-	determining a measurement based on another
41)	н	12.MA.AI.4.1	1
	111	12.IVIA.AI.4. I	derived or given measurement
			Understand attributes, units, and systems of
			units in measurement; and develop and use
			techniques, tools, and formulas for measuring:
			Use formulas, functions, or conversion
			equations to solve problems dealing with
Physics and Math		MA.9-	determining a measurement based on another
(pgs. 43-63)	н	12.MA.AI.4.1	derived or given measurement

			Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring: Use formulas, functions, or conversion equations to solve problems dealing with
Rocket Activity (pgs.		MA.9-	determining a measurement based on another
69-75)	HI	12.MA.AI.4.1	derived or given measurement